CENTRAL FAX CENTER

In re application of Jingrui Wu et al.

Serial No: 10/678,588

Art Unit: 1638

Examiner: Vinod Kumar

ACK 2 8 2006

Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Request for Correction of Inventorship under 37 C.F.R. § 1.48(c)

Commissioner for Patents

Dear Sir:

The claims in the above-referenced nonprovisional application have been amended to claim subject matter that was disclosed, but not claimed, in the application as originally filed, and which requires correction to add inventors not named in the application.

Therefore, it is hereby requested that Kristine Hardeman, Michael Edgerton and Thomas LaRosa be added as inventors for Application No. 10/678,588, by the filing of this Request which is supported by

- (1) a statement from each of the three inventors being added that their addition is necessitated by amendment of the claims and that the inventorship error occurred without deceptive intention on his or her part;
 - (2) written consent of the assignce, Monsanto Technology;
- (3) a processing fee transmittal for payment of the \$130.00 processing fee specified in 37CRF 1.17(i) for correcting inventorship under §1.48; and
 - (4) a declaration by the actual inventors as required by 37 C.F.R. § 1.63.

Respectfully submitted,

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130.00 DA

Thomas E. Kelley

Registration No. 29,938

Applicant's Attorney / Phone: 860-572-5274 636 737 6712

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Jingrui Wu et al.

Serial No: 10/678,588 Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Art Unit: 1638

Examiner: Vinod Kumar

Statement of Lack of Deceptive Intent Pursuant to 37 C.F.R. § 1.48(c)

Commissioner for Patents Washington, D.C. 20231

Sir:

The above-referenced non-provisional application, as filed, disclosed unclaimed subject matter by an inventor or inventors not named in the application, i.e. Michael Edgerton, Thomas LaRosa and Kristine Hardeman. The application is being amended to add claims to that subject matter and name the correct inventors. Accordingly, as an added inventor I say that the addition of inventors is necessitated by the amendment of the claims and that the inventorship error occurred without deceptive intent on my part.

Respectfully submitted,

Michael Edgerton

18 April 2006 Date

In re application of Jingrui Wu et al.

Serial No: 10/678,588

Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Art Unit: 1638

Examiner: Vinod Kumar

Statement of Lack of Deceptive Intent Pursuant to 37 C.F.R. § 1.48(c)

Commissioner for Patents Washington, D.C. 20231

Sir:

The above-referenced non-provisional application, as filed, disclosed unclaimed subject matter by an inventor or inventors not named in the application, i.e. Michael Edgerton, Thomas LaRosa and Kristine Hardeman. The application is being amended to add claims to that subject matter and name the correct inventors. Accordingly, as an added inventor I say that the addition of inventors is necessitated by the amendment of the claims and that the inventorship error occurred without deceptive intent on my part.

Respectfully submitted,

Kristine Hardeman

Date

In re application of Jingrui Wu et al.

Art Unit: 1638

Serial No: 10/678,588

Examiner: Vinod Kumar

Filed: 10/02/2003

For: Yield-Improved Transgenic Plants

Statement of Lack of Deceptive Intent Pursuant to 37 C.F.R. § 1.48(c)

Commissioner for Patents Washington, D.C. 20231

Sir:

The above-referenced non-provisional application, as filed, disclosed unclaimed subject matter by an inventor or inventors not named in the application, i.e. Michael Edgerton, Thomas LaRosa and Kristine Hardeman. The application is being amended to add claims to that subject matter and name the correct inventors. Accordingly, as an added inventor I say that the addition of inventors is necessitated by the amendment of the claims and that the inventorship error occurred without deceptive intent on my part.

Respectfully submitted,

Thomas J/La Rosa

April 21, 2006

In re application of Jingrui Wu et al.

Serial No: 10/678,588

Filed: 10/02/2003

Art Unit: 1638

Examiner: Vinod Kumar

For: Yield-Improved Transgenic Plants

Consent of Assignee to Correction of Inventorship

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attention: Director of OIPE

Sir:

On behalf of Monsanto Technology LLC, I hereby give consent to the addition of Kristine Hardeman, Michael Edgerton and Thomas LaRosa as inventors in the above-referenced non-provisional application.

Monsanto Technology LLC

Michael J. Roth

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Atty. Docket No. 38-21(52578)C

Combined Declaration and Power of Attorney for Application Serial No. 10/578/588

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention relating to Yield-Improved Transgenic Plants, the specification of which was filed on October 2, 2003 as United States Application Number 10/678,588, including the claims as amended in the Listing of Claims shown below.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended in the Listing of Claims shown below.

Lacknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

Thereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/463,787	04/18/2003	
(Application No.)	(Filing Date)	
60/425,157	11/08/2002	
(Application No.)	(Filing Date)	
60/415.758	10/02/2002	
(Application No.)	(Filing Date)	-

Thereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112. I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

09/865,439	0.5/29/2001	abandoned on Nov 18, 2003
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)

I hereby appoint the practitioners associated with Customer No. 27161 and 28381 as my attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Atty, Docket No. 38-21(52578)C

Combined Declaration and Power of Attorney for Application Serial No. 10/578/588

Listing of Claims:

Claim 1 - A method for improving yield in a crop exposed to water deficit by providing a transgenic seed for said crop wherein said transgenic seed has a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:2 in corn or SEQ ID NO:6 or SEQ ID NO:7 in soybean.

Claim 2 - A method of claim 1 wherein said crop is corn, soybean, canola, wheat, rice, cotton or grass.

Claims 5 - A method for improving water-deficit survivability of a crop plant comprising introducing into the genome of said plant a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:2 in corn or SEQ ID NO:6 or SEQ ID NO:7 in soybean.

Claim 6 - A water-deficit-tolerant, transgenic, hybrid maize plant comprising a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:2.

Claim 7 - A water-deficit-tolerant, transgenic soybean plant comprising a recombinant DNA construct expressing a gene which encodes a Hap3 protein having an amino acid sequence identical to the consensus amino acid sequence of SEQ ID NO:8 wherein said gene is constitutively expressed to produce an effective amount of said protein for water-deficit tolerance functionally equivalent to the water-deficit-tolerance imparted by the protein of SEQ ID NO:6 or SEQ ID NO:7 in soybean.

Claim 8 - A transgenic maize seed for producing the water-deficit-tolerant, transgenic, hybrid maize of claim 6 having in its genome a recombinant DNA construct which expresses a gene which encodes a Hap3 protein having a consensus amino acid sequence of SEQ ID NO: 8 and a gene imparting herbicide resistance.

Claim 9 - A seed of claim 8 wherein said gene imparting herbicide resistance provides resistance to an herbicide selected from the group consisting of a glyphosate herbicide, a phosphinothricin herbicide, an oxynit herbicide, an imidazolinone herbicide, a dinitroaniline herbicide, a pyridine herbicide, a sulfonylurea herbicide, a bialaphos herbicide, a sulfonamide herbicide and a glophosinate herbicide.

Claim 10 - A seed of claim 8 wherein said genome further comprises a recombinant DNA construct which expresses a gene encoding an insecticidal protein.

Claim 11 - A seed of claim 10 wherein said insecticidal protein is a delta endotoxin from *Bacillus thurengienisus*.

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Atty. Docket No. 38-21(52578)C

Combined Declaration and Power of Attorney for Application Serial No. 10/578/588

Listing of Claims (continued)

Claim 12 - A seed of claim 8 wherein said genome further comprises a recombinant DNA construct which is transcribed to RNA which forms gene silencing dsRNA targeted to a crop pest.

Claim 13 - A plant produced from a seed of claim 8.

Claim 14 - A water-deficit-tolerant, transgenic, hybrid maize plant of claim 6 wherein said recombinant DNA comprises a promoter operably linked to native com DNA encoding the protein with the amino acid sequence of SEQ ID NO:2.

Claim 15 - A recombinant DNA construct comprising a promoter operably linked to native com DNA encoding the protein with the amino acid sequence of SEQ ID NO:2.

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Atty. Docket No. 38-21(52578)C

Full name of sole or first inventor: Jingrui WU	
Inventor's signature Sugario Date April 5, 2006	
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Yaventor's signature Date	
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Inventor's signature Date	
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Page 4 of 6

Atty, Docket No. 38-21(52578)C

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Inventor's signature	January 1 1 106
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Page 4 of 6

Atty, Docket No. 38-21(52578)C

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Page 5 of 6

Atty. Docket No. 38-21(52578)C

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Page 5 of 6

Auy, Docket No. 38-21(52578)C

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Page 5 of 6

Atty. Docket No. 38-21(52578)C

Full name of fourth inve	ntor: Zhidong XIE
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Inventor's signature	Donald C. Nelson Date 4/5-/2006
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Page 6 of 6

Atty. Docket No. 38-21(52578)C

St. Louis, Missouri Citizenship US Post Office Address 1 Yale Avenue, St. Louis, Missouri 63130, USA Full name of eighth inventor: Thomas J. LA ROSA		
St. Louis, Missouri Ditizenship US Post Office Address 1 Yale Avenue, St. Louis, Missouri 63130, USA Full name of eighth inventor: Thomas J. LA ROSA Inventor's signature Date Residence Fenton, Missouri Clinzenship US Fost Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor: Kristine HARDEMAN Inventor's signature Date Residence Westerly, Rhode Island 02891 Citizenship US	full name of seventh inventor	
Post Office Address 1 Yale Avenue, St. Louis, Missouri 63130, USA Full name of cighth inventor: Thomas J. LA ROSA Laventor's signature Date Residence Fenton, Missouri Clazenship US Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor: Kristine HARDEMAN Laventor's signature Date Residence Westerly, Rhode Island 02891 Citizenship US	nventor's signature	2006 Date 4 April 2006
Pest Office Address 1 Yale Avenue, St. Louis, Missouri 63130, USA Full name of eighth inventor: Thomas J. LA ROSA Inventor's signature Date Residence Fenton, Missouri Cinzenship US Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor: Kristine HARDEMAN Inventor's signature Date Residence Westerly, Rhode Island 02891 Citizenship US	Residence St. Lou	uis, Missouri
Full name of eighth inventor: Thomas J. LA ROSA Inventor's stignature Date Residence Penton, Missouri Clitzenship US Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor: Kristine HARDEMAN Inventor's signature Date Residence Westerly, Rhode Island 02891 Citizenship US	Citizenship US	
Residence Fenton, Missouri Citizenship US Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor. Kristine HARDEMAN Inventor's algorithme Westerly, Rhode Island 02891 Citizenship US	Post Office Address 1 Y	ale Avenue, St. Louis, Missouri 63130, USA
Residence Fenton, Missouri Citizenship US Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor. Kristine HARDEMAN Inventor's algorithme Westerly, Rhode Island 02891 Citizenship US		
Residence Fenton, Missouri Clitzenship US Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor. Kristine HARDEMAN Inventor's algoriture Date Residence Westerly, Rhode Island 02891 Citizenship US	Full name of eighth inventor	: Thomas J. LA ROSA
Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor. Kristine HARDEMAN Inventor's signature Date Residence Westerly, Rhode Island 02891 Citizenship US	Inventor's signature	Date
Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA Full name of ninth inventor. Kristine HARDEMAN Inventor's signature Date Residence Westerly, Rhode Island 02891 Citizenship US	Residence Fento	on, Missouri
Full name of ninth inventor. Kristine HARDEMAN Inventor's algunture Date Residence Westerly, Rhode Island 02891 Citizenship US	Citizenship U	S
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Residence Westerly, Rhode Island 02891 Citizenship US	Full name of ninth inventor	r. Kristine HARDEMAN
Citizenship US	Inventor's signature	Date
CREATING TO A SHOULD BE A SHOU	Residence Wes	sterly, Rhode Island 02891
Post Office Address 14 South Drive, Westerly, Rhode Island 02891, USA	Citizenship	US
	Post Office Address 1	4 South Drive, Westerly, Rhode Island 02891, USA

Page 6 of 6

Atty, Docket No. 38-21(52578)C

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esidence	St. Louis, Missouri
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Past Office Address	3 Yale Avenue, St. Louis, Missouri 63130, USA
<u>,</u>	
Full name of eight	inventor: Thomas J. LA ROSA
Inventor's signatu	Date Apr. 15, 2006
Residence	Fenton, Missouri
Citizenship	US
Post Office Addre	651 Green Forest Drive, Fenton, Missouri 63026, USA
Full name of ninth	inventor: Kristine HARDEMAN
Inventor's signat	ure Date
Residence	Westerly, Rhode Island 02891
Citizenship	US
	14 South Drive, Westerly, Rhode Island 02891, USA

Page 6 of 6

Atty. Docket No. 38-21(52578)C

Full tiging of seventh inventor: Michael D. EDGERTON
Inventor's signature Date
Residence St. Louis, Missouri
Citizenship US
Post Office Address 1 Yale Avenue, St. Louis, Missouri 63130, USA
Full name of eighth inventor: Thomas J. LA ROSA
Inventor's signature Date
Residence Fenton, Missouri
Citizenship US
Post Office Address 651 Green Forest Drive, Fenton, Missouri 63026, USA
Full name of ninth inventor: Kristine HARDEMAN
Inventor's signature Kristine of Hardeman Date 4-6 06
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